

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended) A transgenic mouse, wherein said mouse is homozygous for ~~[[a]]~~ disruption of the phosphodiesterase 11A (PDE11A) gene wherein said mouse exhibits nondetectable PDE11A activity and wherein a male mouse containing said homozygous disruption demonstrates reduced spermatogenesis or increased capacitation in ~~spermatazoa~~ spermatozoa.

2 (cancelled).

3 (cancelled).

4 (previously presented) A transgenic cell derived from the transgenic mouse of claim 1.

5 (previously presented) The cell of claim 4, wherein said cell is an embryonic stem (ES) cell.

Claims 6-20 (cancelled).